

Report Date: 29 Apr 2012

Summary Report for Individual Task
091-94E-1703
Repair Radio Set AN/PRC-90(*)
Status: Approved

DISTRIBUTION RESTRICTION: Approved for public release; distribution is unlimited.

DESTRUCTION NOTICE: None

Condition: In an operational environment, an AN/PRC-90(*) and a maintenance request form have been turned into your avionics shop. Your supervisor has directed you to perform a serviceability inspection of the radio set, given the following: Radio Set, AN/PRC-90(*); Radio Test set, AN/GRM-114A; Counter, Electronic, AN/USM-459; Test Set, Radio, TS-24B; DA Form 2404, DA Form 2407, local SOP, TM 1-1680-377-13&P-2, TM 11-5820-1049-30, DA Pam 750-8, and TB 385-4. This task should not be trained in MOPP.

Standard: Performed serviceability inspection of the AN/PRC-90(*) in accordance with TM 1-1680-377-13&P-2, TM 11-5820-1049-30.

Special Condition: None

Special Standards: None

Special Equipment:

Safety Level: Low

MOPP: Never

Task Statements

Cue: Your supervisor has directed you to perform a serviceability inspection of the AN/PRC-90(*).

DANGER

None

WARNING

None

CAUTION

Operation of the AN/PRC-90 without adequate RF shielding is prohibited except during a bona fide emergency situation. Keep the function switch in the OFF position at all times when not in emergency use and operate the VOL control in the minimum position during voice transmissions. Failure to observe these precautions will shorten battery life and could result in equipment failure or disrupt actual search missions. If the unit is issued in a sealed container, do not break the seal until the emergency conditions have stabilized.

Remarks: None

Notes: None

Performance Steps

1. Obtain required tools and test equipment in accordance with TM 1-1680-377-13&P-2.
2. Complete appropriate blocks on maintenance request forms in accordance with DA PAM 750-8.
3. Perform visual inspection in accordance with TM 1-1680-377-13&P-2.
 - a. Chassis
 - b. Connectors / Cables
 - c. Antenna
 - d. Battery
4. Set up test equipment in accordance with TM 1-1680-377-13&P-2.
5. Verify the symptom(s): perform operational check in accordance with TM 1-1680-377-13&P-2.
 - a. Self test
 - b. Output tests
 - c. Signal tests
6. Proceed to PS#12 if AN/PRC90 passes operational check: if not, perform troubleshooting procedures.
7. Troubleshoot the maintenance equipment in accordance with TM 1-1680-377-13&P-2.
8. Identify the defective circuit card(s) or component(s).
9. Replace the defective circuit(s) or component(s).
10. Verify the repair.
11. Perform operational check in accordance with applicable technical manual(s).
12. Complete maintenance request form (Refer to DA PAM 750-8).
13. Tag defective part(s) for turn in, in accordance with DA PAM 750-8.
14. Request final inspection upon completion of task (Refer to Local SOP).

(Asterisks indicates a leader performance step.)

Evaluation Preparation: Ensure all items required in the condition statement (or appropriate substitutions) are on hand and all safety requirements are met.

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Obtained required tools and test equipment.			
2. Completed appropriate blocks on maintenance request forms.			
3. Performed visual inspection.			
4. Set up test equipment.			
5. Verified symptom(s), performed operational check.			
6. Proceed to PS#12 if AN/PRC-90 passed operational check: if not, performed troubleshooting procedures.			
7. Performed troubleshooting procedures.			
8. Identified the defective circuit card(s) or component(s).			
9. Replaced the defective circuit(s) or component(s).			
10. Verified the repair.			
11. Performed operational check.			
12. Completed maintenance forms.			
13. Tagged defective part(s) for turn in.			
14. Requested final inspection upon completion of task. (Refer to Local SOP)			

Supporting Reference(s):

Step Number	Reference ID	Reference Name	Required	Primary
	DA FORM 2404	EQUIPMENT INSPECTION AND MAINTENANCE WORKSHEET	Yes	No
	DA FORM 2407	MAINTENANCE REQUEST FORM	Yes	No
	LOCAL SOP	LOCAL SOP	Yes	No
	PAM 750-8	The Army Maintenance Management System (TAMMS) Users Manual.	Yes	No
	TB 385-4	SAFETY REQUIREMENTS FOR MAINTENANCE OF ELECTRICAL AND ELECTRONIC EQUIPMENT	Yes	No
	TM 1-1680-377-13&P	INTERACTIVE ELECTRONIC TECHNICAL MANUAL (IETM) FOR AIR WARRIOR	No	No
	TM 11-5820-1049-12	OPERATORS AND AVIATION UNIT MAINTENANCE MANUAL FOR RADIO SET AN/PRC-90-2 (NSN 5820-01-238-6603)	Yes	No
	TM 11-5820-1049-30	AVIATION INTERMEDIATE MAINTENANCE MANUAL FOR RADIO SET AN/PRC-90-2 (NSN 5820-01-238-6603)	Yes	No

Environment: All operations must conform to the Army Environmental Program, TC 3-34.489 (The Soldier and the Environment), 3-34.5 (ENVIRONMENTAL CONSIDERATIONS {MCRP 4-11B}), AR 200-1 Environmental Protection and Enhancement), local, state, and federal environmental policies, The Clean Air Act (CAA), CAA amendments, National Ambient Air-Quality Standards (NAAQS), as well as OSHA Hazard Communication Standard for Industry, 29 CFR, part 1910.

Safety: In a training environment, leaders must perform a risk assessment in accordance with FM 5-19, Composite Risk Management. Leaders will complete a DA Form 7566 COMPOSITE RISK MANAGEMENT WORKSHEET during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available and civil considerations, (METT-TC). Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW FM 3-11.4, NBC Protection, FM 3-11.5, CBRN Decontamination. Incidental to Army operations and activities, all operations must provide for public safety, safe and healthful workplaces, procedures and equipment. Observe all safety precautions when using lifting devices and handling heavy parts. Observe all safety and/or environmental precautions regarding electricity, radiation, radio frequency (RF), fuel, lubricants, high pressures, and refrigerants. Provide ventilation for exhaust fumes during equipment operation and use hearing protection when required in accordance with AR 385-10

(The Army Safety Program), The Clear Air Act (CAA), CAA amendments, National Ambient Air Quality Standards (NAAQS), and the OSHA Communication Standard.

Prerequisite Individual Tasks : None

Supporting Individual Tasks : None

Supported Individual Tasks : None

Supported Collective Tasks :

Task Number	Title	Proponent	Status
09-2-4000	Perform Direct Support Maintenance Operations (EAD)	09 - Ordnance (missiles and munitions) (Collective)	Approved

ICTL Data :

ICTL Title	Personnel Type	MOS Data
94E Radio Communications Security Repairer Skill Level 1	Enlisted	MOS: 94E, Skill Level: SL1